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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,960	09/22/2003	Graham Neil McKelvey	CM2631MC	1194

27752            7590            07/14/2004

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EXAMINER
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ELHILO, EISA B

ART UNIT	PAPER NUMBER
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1751

DATE MAILED: 07/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/667,960	MCKELVEY ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Eisa B Elhilo	1751	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 22 September 2003.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-15 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/22/2003</u> . | 6) <input type="checkbox"/> Other: _____  |

Claims 1-15 are pending in this application.

## DETAILED ACTION

### *Double Patenting*

1 The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1, 6-11 and 13-15 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-2, 5-12 and 14 of copending Application No. 10/667,739. Although the conflicting claims are not identical, they are not patentably distinct from each other because Mckelvey, Application No. 10/667,739, teaches and discloses a similar hair treating composition comprising an oxidizing agent, a conditioning agent and a chelant agent of phosphoric acid type as claimed in claim 1 (see claims 1-2 of the copending Application No. 10/667,739), wherein the pH of the composition is between 8 and 12 as claimed in claim 6 (see claim 8 of the copending Application No. 10/667,739), wherein the composition further comprises at least one oxidative hair dye as claimed in claim 10 (see claim 9 of the copending Application No. 10/667,739), wherein the composition is in the form of an oil-in-water emulsion as claimed in claim 7 (see claim 5 of the copending Application No. 10/667,739), wherein the composition is in the form of a thickened

aqueous solution as claimed in claim 8 (see claim 6 of the copending Application No. 10/667,739), wherein the composition further comprises a salt-tolerant thickener as claimed in claim 9 (see claim 7 of the copending Application No. 10/667,739). Mckelvey, Application No. 10/667,739, also teaches similar methods of treating hair, wherein the methods comprise similar steps of treating hair with the composition comprising a conditioning agent, chelant and a second composition comprising an oxidizing agent as claimed in claim 11 (see claim 10 of the copending Application 10/667,739), a method of treating hair comprising the steps of applying to the hair a first composition that comprises an oxidizing agent, a second composition that comprises a conditioning agent and a chelant agent and a third composition that comprises a second oxidizing agent as claimed in claim 13 (see claim 11 of the copending Application No. 10/667,739), a method of treating hair comprising the steps of applying to the hair a first composition comprising a chelant, a second composition comprising an oxidizing agent and a third composition comprising a conditioning agent as claimed in claim 14 (see claim 12 of the copending Application No. 10/667,739). Mckelvey, Application No. 10/667,739, further, teaches a kit for dyeing hair comprising a first composition that comprises an oxidizing agent and a second composition that comprises an oxidative agent as claimed in claim 15 (see claim 14 of the co-pending Application No. 10/667,739). Therefore, this is an obvious formulation.

Although, the claims of the copending Application No. 10/667,739, teach and disclose similar compositions for treating hair, they are not identical to the instant claims, because the claims of the copending Application No. 10/667,739, teach and disclose the percentage amount of the chelant agent in the composition, while the instant claims do not recite the percentage amount of the chelant in the composition. Further, the claims of the copending Application No.

10/667,739 teach similar methods for treating hair. Therefore, the conflicting claims are not identical.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

***Claim Rejections - 35 USC § 102***

2 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 6, 8-10 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Dias et al. (US 6,004,355).

Dias et al. (US' 355) teaches a hair coloring composition comprising an oxidizing agent (see col. 3, line 3), conditioning agents such as silicones (see col. 3, line 29 and col. 31, line 21) and sequestrant (chelant) agents of phosphonic acid derivatives as claimed in claim 1 (see col. 23, line 65 and col. 24, lines 19-23), methyl cellulose as a thickener as claimed in claim 9 (see col. 25, lines 5-6) and oxidative hair dye precursor as claimed in claim 10 (see col. 10, line 50). The composition is an aqueous solution as claimed in claim 8 (see col. 32, Examples I to A), wherein the composition has a pH of 10, which within the claimed range as claimed in claim 6 (see col. 32, line 65). Dias et al. (US' 355), also teaches a kit comprising an oxidizing agent and one or more coloring agents as claimed in claim 15 (see col. 22, lines 65-67). Dias et al. (US' 355), teaches all the limitations of the instant claims. Hence, Dias et al, anticipates the claims.

***Claim Rejections - 35 USC § 103***

3 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dias et al. (US 6,004,355) in view of Peter et al. (US 3,542,918).

Dias et al. (US' 355) teaches a hair treatment composition in the form of hair coloring composition comprising an oxidizing agent (see col. 3, line 3), conditioning agents such as silicones (see col. 3, line 29 and col. 31, line 21) and sequestrant (chelant) agents of phosphonic acid derivatives such as ethylene diamine tri-(methylene phosphonate) as claimed in claim 1 (see col. 23, line 65 and col. 24, lines 19-23).

The reference does not teach or disclose at least one of the chelants of the formulae (I) to (IV) as claimed in claims 2 and 4. Further, the reference does not teach the chelant species as claimed in claims 3 and 5.

Peter et al. (US' 918) in analogous art of hair treating formulation, teaches a composition comprising chelant compounds (aminopolyphosphoric acid) of a formula (3), which is similar to the claimed formula (III), when in the reference's formula (3), X and Y individually are hydrogen atom or an alkyl group, and R4 and R5 are either a PO<sub>3</sub>H<sub>2</sub> group or a group of the formula (4), which is similar to the claimed formula (IIIa) as claimed in claim 2 (see col. 2, formulae 3 and 4), ethylene diamine tetra-(1-ethylphosphoric acid) as claimed in claims 3 and 5 (see col. 2, lines 25-26) and chelant compounds of a formula (5), which is similar to the claimed

formula (IV), when in the reference's formula (5), R4 and R5 are a PO<sub>3</sub>H<sub>2</sub> group or a group of the formula (6), which is similar to the claimed formula (IVa) as claimed in claim 4 (see col. 2, formulae 5 and 6).

Therefore, in view of the teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to modify the hair dyeing composition of the primary reference by incorporating the chelant compounds as taught by Peter et al. (US' 918) with a reasonable expectation of success. Such modification would be obvious because the primary reference of Dias et al. (US' 355) suggests the use of aminophosphonates such as diethylene triamine penta (methylene phosphonate) and ethylene diamine tri(methylene phosphonate) as the chelant compounds (see col. 24, lines 11-23). The secondary reference of Peter et al. (US' 918), in analogous art clearly teaches and discloses that aminopolyphosphinic acids and derivatives are used in the hair treating composition for the protection of hair by preventing damage to human hair upon bleaching and/or dyeing (see col. 1, line 56-58), and, thus, a person of the ordinary skill in the art would be motivated to use the aminophosphonate compounds as taught by Peter et al. (US' 918) in the dyeing composition of Dias et al. (US' 355) with a reasonable expectation of success for preventing damage to the hair during bleaching and/or dyeing applications and would expect such a composition to have similar properties to those claimed, absent unexpected results.

4 Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dias et al. (US 6,004,355) in view of Reese et al. (US 4,138,478).

The disclosure of Dias et al. (US' 355), as described above, teaches hair treatment compositions in the form of hair coloring compositions (see col. 31, lines 62-64), wherein the

compositions are thickened aqueous compositions (comprising thickeners and water) (see col. 32, Examples I to VI). The reference does not teach a hair treating composition in the form of an oil-in-water emulsion as claimed.

Reese et al. (US' 478) in analogous art of hair treating formulation, teaches a composition which change the color of hair (either by bleaching or by dyeing) (see col. 2, lines 3-5), wherein the composition in the form of fluid baths, dry powder, pastes and cream emulsion of the oil-in-water (see col. 2, lines 9-11 and col. 8, claim 12). Reese et al. (US' 478) also teaches an aqueous composition adapted to change the color of hair, wherein the composition comprises an oxidizing agent and an effective amount of a diphosphonic compound (see col. 7, claim 1).

Therefore, in view of the teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to formulate the composition of the primary reference in a form of an oil-in-water emulsion as taught by Peese et al. (US' 478). Such modification would be obvious because the primary reference teaches an aqueous hair treating composition (see col. 32, Examples I to VI). The secondary reference of Reese et al. (US' 478) clearly teaches different forms of the hair treating composition such as fluid baths, dry powder, pastes, aqueous and emulsion (see col. 2, lines 9-11 and col. 7, claim 1 and col. 8, claim 12), and, thus, a person of an ordinary skill in the art would be motivated to formulate the treating composition of Dais et al. (US' 355) in any form including the claimed emulsion form, and, would expect such a composition to have similar properties to those claimed, absent unexpected results.

5       Claims 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dias et al. (US 6,004,355).

Dias et al. (US' 355) teaches methods for coloring hair similar to the claimed method, in that the reference's methods comprise the steps of applying to the hair an oxidative hair coloring composition that comprises hydrogen peroxide component (oxidizing agent), oxidative dye precursors, conditioning agents and sequestrant (chelant) agents of phosphonic acid derivatives as described above, wherein the methods comprise the step of applying to the hair the hydrogen peroxide component prior to application of the admixed contents of the oxidative hair coloring agents and additional materials (see col. 34, line 21-25), and wherein the methods also comprise the step of mixing the oxidative hair coloring agents and oxidizing agent before application to the hair and the mixture is applied to the hair for periods of time depending upon the degree of coloring required (see col. 34, lines 6-7 and lines 30-34). Dias et al. (US' 355) further, teaches that the composition can be applied separately (see col. 34, line 8).

Although, Dias et al. (US' 355) teaches a method for treating hair comprising the steps of applying to the hair compositions that comprise oxidation dyeing precursors, oxidizing agents, conditioners and chelant components as described above, the reference does not teach the steps of the claimed methods with sufficient specificity to constitute an anticipation of the claims.

However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use these methods for treating hair with a composition that comprises similar ingredients because the reference clearly teaches methods with different steps of applying the dyeing composition to the hair wherein the contents of the composition can be applied as a whole or separately as described above, and, thus, a person of an ordinary skill in the art would be motivated to utilize different methods for treating hair including the claimed methods and no

matter which part of the composition is applied first, and would expect that these methods to have similar results to those claimed, in the absence of contrary.

Further, the applicants have not shown on record the criticality of the steps in the claimed methods.

***Conclusion***

6 The remaining references listed on from 1449 have been reviewed by the examiner and are considered to be cumulative to or less material than the prior art references relied upon in the rejection above. Further, the prior art made of record and not relied upon is considered pertinent to applicant's disclosure (US 3,202,579) and (US5,340,367).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eisa B Elhilo whose telephone number is (571) 272-1315. The examiner can normally be reached on M - F (8:00 -5:30) with alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on (571) 272-1316. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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July 9, 2004



Eisa Elhilo  
Patent Examiner  
Art Unit 1751